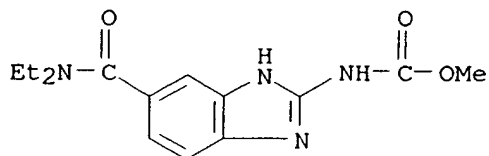


09/676,033

AB The title compds. [I; R = Et, Pr, Me₂CH, Me₂CHCH₂; R₂N = morpholino, piperidino, 4-phenylpiperazin-1-yl, 4-(2-pyridyl)piperazin-1-yl (II)] were prepd. as anthelmintics (no data). 4,3-AcNH(O₂N)C₆H₃CO₂H was converted to its acid chloride with SOCl₂ and amidated with 1-(2-pyridyl)piperazine to give 89% benzoylpiperazine II (R₁ = NO₂, R₂ = Ac). This was deacetylated (95%) and reduced with N₂H₄ in presence of Raney Ni to give III (R₁ = NH₂, R₂ = H). The latter was cyclocondensed with MeO₂CNHC(:NH)SMe, prepd. by treating H₂NC(:NH)SMe.cntdot.H₂SO₄ with ClCO₂Me in the presence of 2-(NH₂)C₆H₄NH₂ to give 60% II.

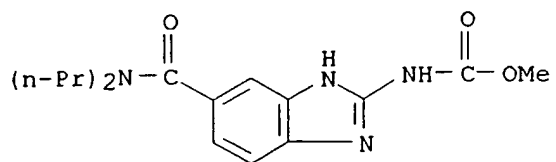
ACCESSION NUMBER: 1988:94554 CAPLUS
DOCUMENT NUMBER: 108:94554
TITLE: Preparation of methyl 5(6)-(disubstituted carbamoyl)benzimidazole-2-carbamates as anthelmintics
INVENTOR(S): Kumar, Shiv; Seth, Manju; Bhaduri, Amiya Prashad; Visen, Pradeep Kumar Singh; Gupta, Suman; Ram, Shive; Mishra, Anuradha; Bhar, Shyamal Chandra; Katiyar, Jagdish Chandra; Sen, Amiya Bhushan
PATENT ASSIGNEE(S): Council of Scientific and Industrial Research (India), India
SOURCE: Indian, 14 pp.
CODEN: INXXAP
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	IN 158878	A	19870207	IN 1982-DE538	19820715
IT	67476-34-0P 67476-35-1P 67476-36-2P 112661-55-9P				
	RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of, as anthelmintic)				
RN	67476-34-0	CAPLUS			
CN	Carbamic acid, [5-[(diethylamino)carbonyl]-1H-benzimidazol-2-yl]-, methyl ester (9CI) (CA INDEX NAME)				



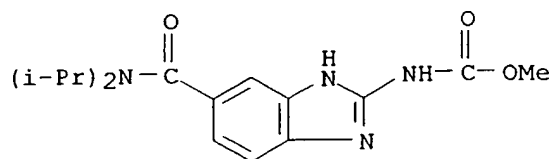
RN 67476-35-1 CAPLUS
CN Carbamic acid, [5-[(dipropylamino)carbonyl]-1H-benzimidazol-2-yl]-, methyl ester (9CI) (CA INDEX NAME)

09/676,033



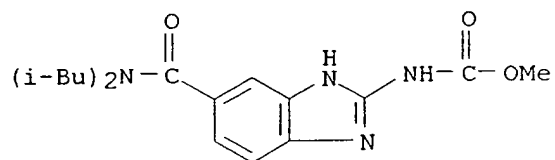
RN 67476-36-2 CAPLUS

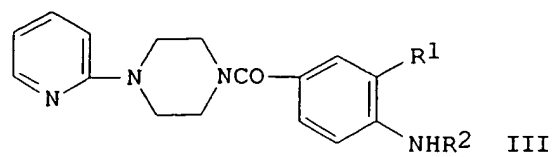
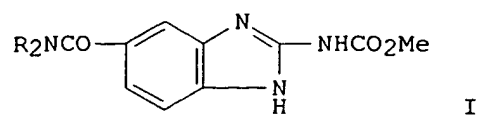
CN Carbamic acid, [5-[[bis(1-methylethyl)amino]carbonyl]-1H-benzimidazol-2-yl]-, methyl ester (9CI) (CA INDEX NAME)



RN 112661-55-9 CAPLUS

CN Carbamic acid, [5-[[bis(2-methylpropyl)amino]carbonyl]-1H-benzimidazol-2-yl]-, methyl ester (9CI) (CA INDEX NAME)





Delacroix